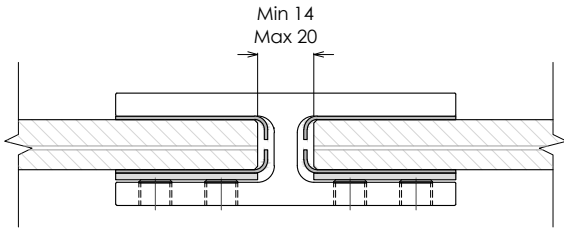
METROVIEW MINI POST SP160B BALUSTRADE SYSTEM

Balustrade Stiffener Brackets

STRAIGHT BRACKET

12–15.5mm GLASS

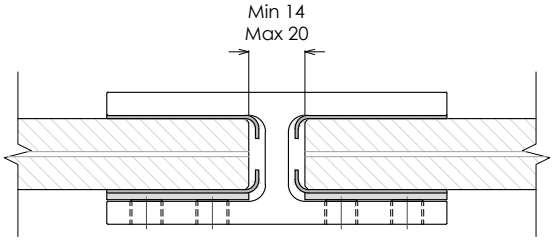
300149



STRAIGHT BRACKET

17.2 – 21.52mm GLASS

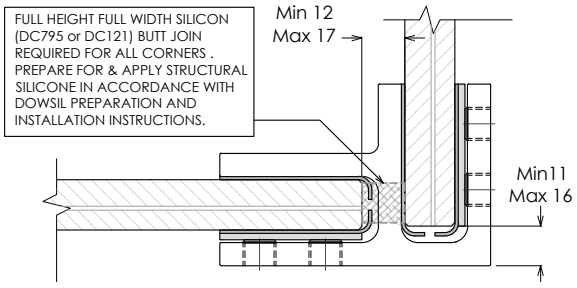
300150



CORNER BRACKET

12–15.5mm GLASS

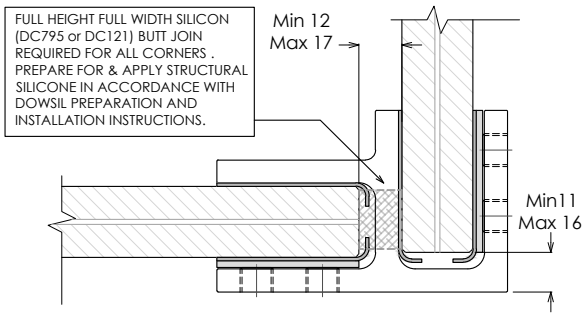
300151



CORNER BRACKET

17.2 – 21.52mm GLASS

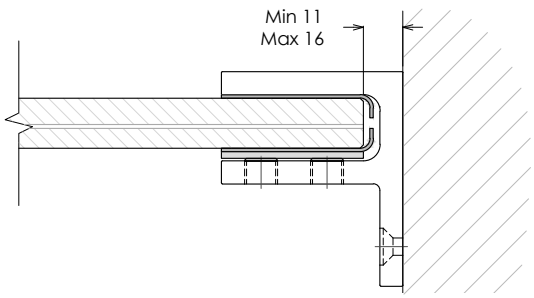
300152



WALL BRACKET

12–15.5mm GLASS

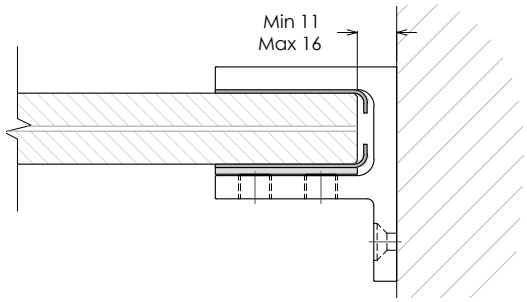
300153



WALL BRACKET

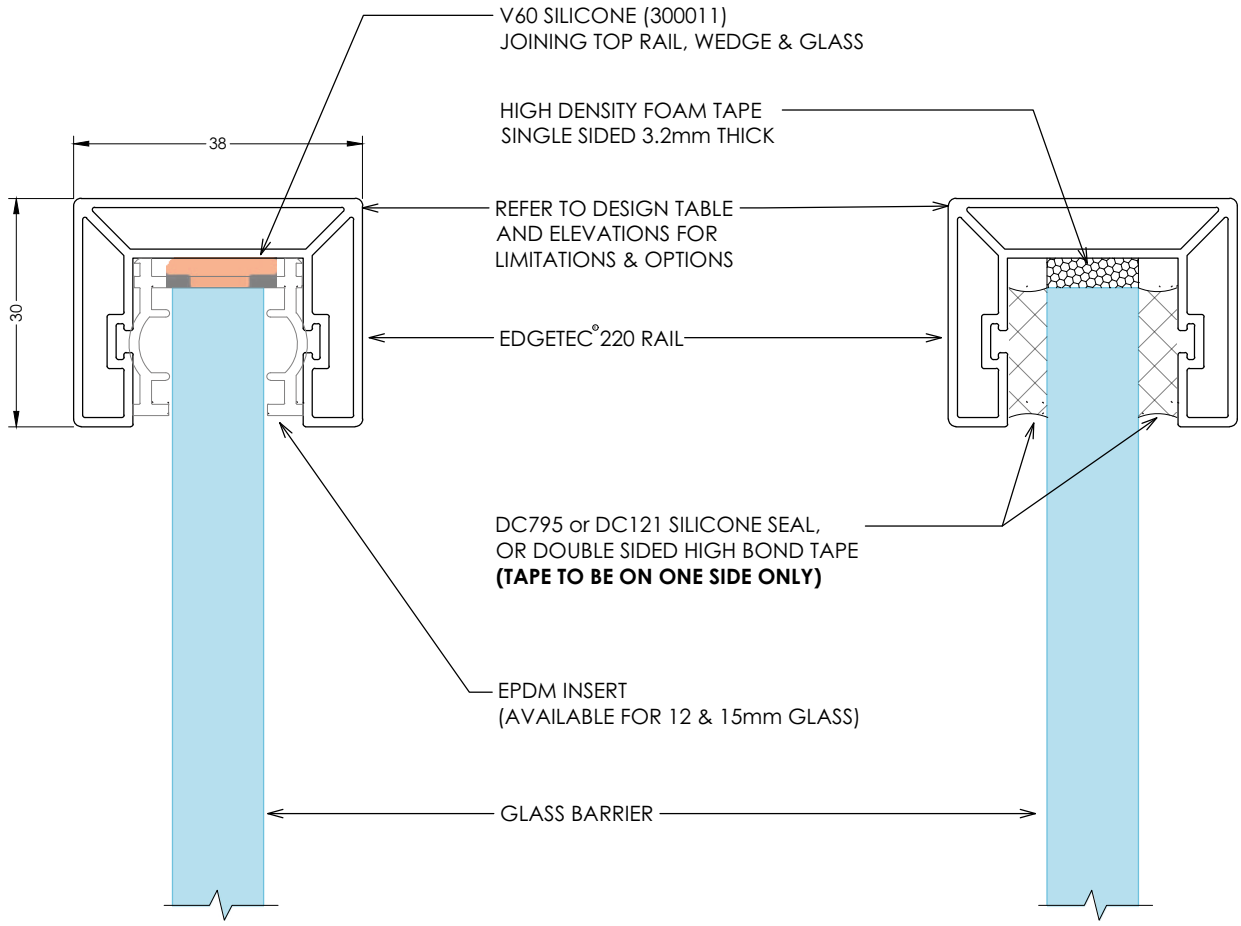
17.2 – 21.52mm GLASS

300154



METROVIEW MINI POST SP160B BALUSTRADE SYSTEM

Edgetec® 220 Link Rail



INSTALLATION NOTES:

1. Cut short lengths of gasket (nom 50mm) and place at approximately 700mm centres.
2. Cut / adjust interlinking rail to correct dimensions and test in position.
3. Remove all parts from glass barrier and install full cut lengths of gasket to top edge of glass barrier.
4. Assemble top rail, joiners and suitable end plates.
5. Place blobs of v60 silicone in every gasket hole.
6. Place top rail extrusion, joiners and end plates in position on glass barrier, clipping firmly to gasket.
7. Tape assembled components down to glass barrier and wait 24hrs to fully bond.
8. Clean up any excess silicone.

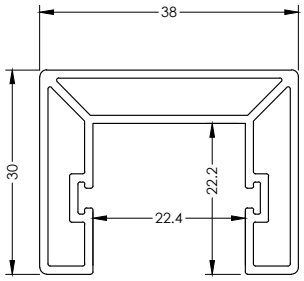
Note: rail ends must be attached to structure or structural post. Extrusion joins must have a suitable joiner plate

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

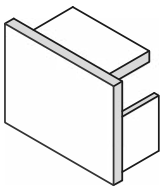
METROVIEW MINI POST SP160B RAIL & BRACKETS

Edgetec® 220 Link Rail

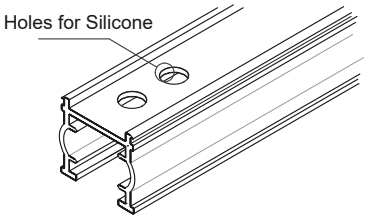
Edgetec® 220 Rail for 12mm & 15mm Glass
Full Length (5800mm) 300729
Half Length (2900mm) 300726
38x30mm



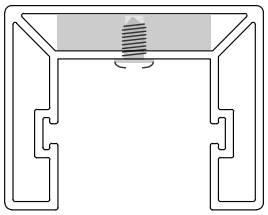
Edgetec® 220 Rail
End Cap (300494)
38x30mm



Edgetec® 220 Rail
Black EPDM Gasket (2900mm length)
for 12mm Glass 300593
for 15mm Glass 300594

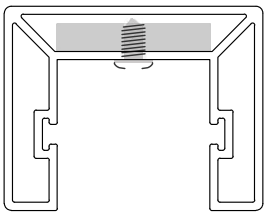


Joiners: (After cutting extrusions to length)
- With Joiner in place, spot drill from below for position
- Drill out to joiner to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive Screw (301993)



Joiners both 22.5 x 5mm
Aluminium

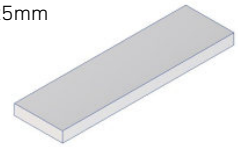
End Plates: (After cutting extrusions to length)
- With End Plate in place, spot drill from below for position
- Drill out to SS tab to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive Screw (301993)
- End Plate must be securely attached to Post or structure.



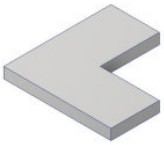
End Plate
Tabs all 22.5 x 4mm SS.

JOINERS NOM. 22.5 X 5MM ALUMINIUM

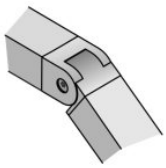
Edgetec® 220 Rail Inline Joiner (#300847)
80x22.5x5mm



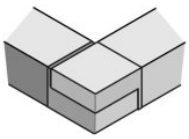
Edgetec® 220 Rail Fixed 90 Degree Joiner (#300848)
50x50x5mm



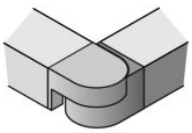
Edgetec® 220 Rail Vertical Adjustable Joiner (#301990)



Edgetec® 220 Rail Horizontal Fixed Joiner (#301985)



Edgetec® 220 Rail Horizontal Adjustable Joiner (#301988)



Edgetec® 220 Rail Wall Bracket Post End* (#301992)
60x46mm



Edgetec® 220 Rail Wall Bracket Left Hand (#301004)
120x45mm



Edgetec® 220 Rail Wall Bracket Right Hand (#301006)
120x45mm



Edgetec® 220 Rail Wall Bracket Post End (#301149)
100x45mm



* Suits AP65 Aluminium Post

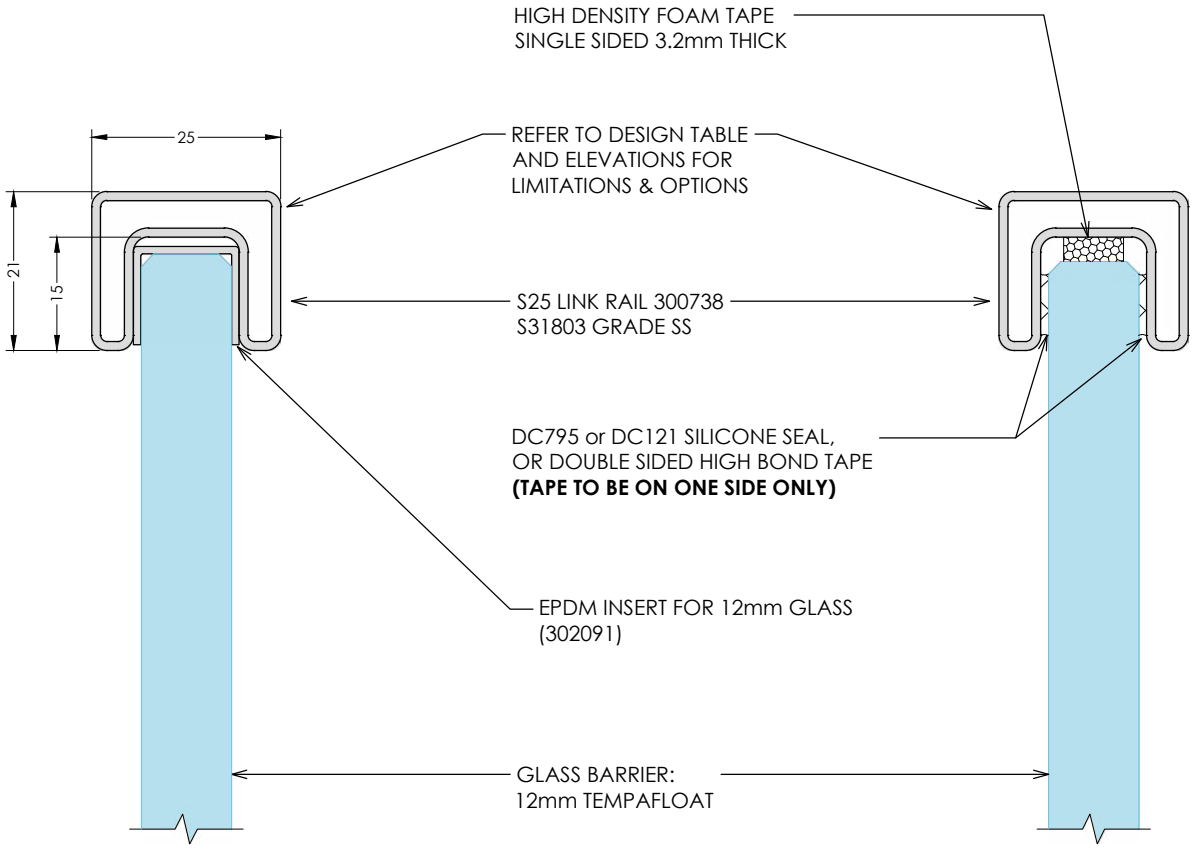
TABS ALL 22.5 X 4MM. FRONT FACES ALL 3MM SS.

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

METROVIEW MINI POST SP160B RAIL & BRACKETS

S25 Link Rail

S25-01
S25 RAIL – TYPICAL INSTALLATIONS



EPDM GASKET SYSTEM

TAPE & SILICONE SYSTEM

NOTES:

1. Interlinking rail details are only to be used on metro performance glass. Cantilevered glass balustrades.
2. Prepare for and apply DC795 & DC121 structural silicone in accordance with dow. Corning preparation and installation instructions.
3. Interlinking rail splice & corner connections are shown on drawings S25-02 & S25-03.
4. Interlinking rail end connection brackets & attachment details are shown on drawings S25-04 to S25-08.
5. All screws to be stainless steel with a minimum ultimate shear strength of 3.5kN (per Screw).
6. Link rail section and connection pieces to be S31803 grade stainless steel, In accordance with NZS 4673:2001.
7. Refer to warranty & maintenance pages for periodic inspection, cleaning & maintenance requirements.

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

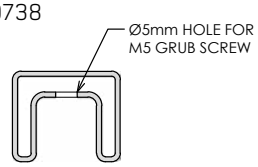
METROVIEW MINI POST SP160B RAIL & BRACKETS

S25 Link Rail

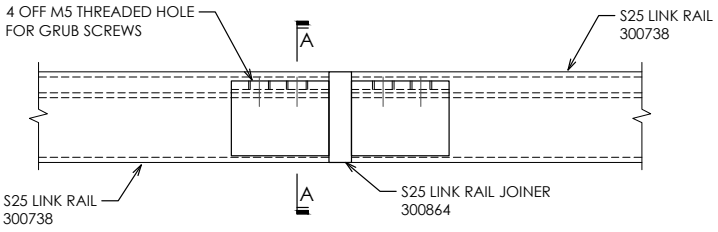
S25-02
S25 RAIL – SPLICE CONNECTION DETAIL

All fixings to be stainless steel

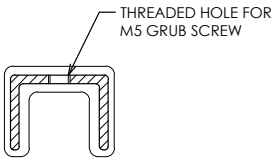
S25 LINK RAIL SECTION
300738



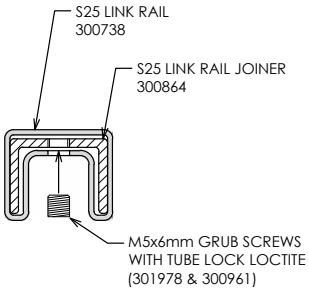
S25 LINK RAIL – SPLICE CONNECTION ELEVATION

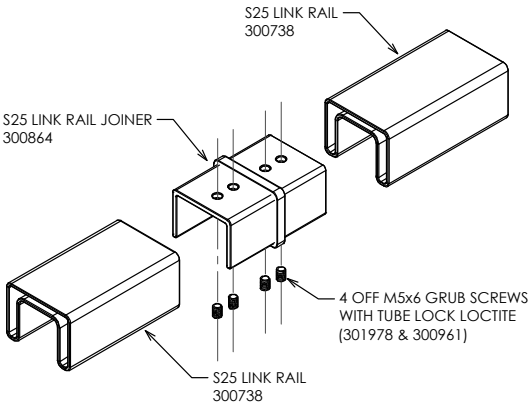


S25 LINK RAIL INLINE JOINER
300852



SECTION A–A

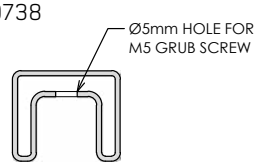




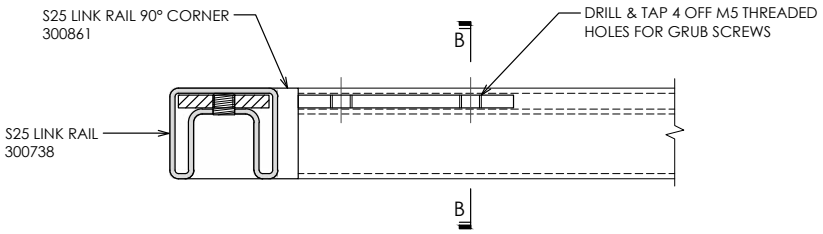
S25-03
S25 RAIL – 90° CORNER CONNECTION DETAIL

All fixings to be stainless steel

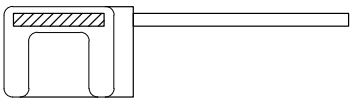
S25 LINK RAIL SECTION
300738



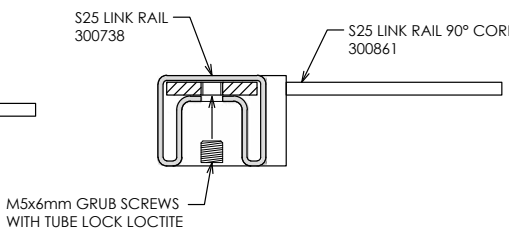
S25 LINK RAIL – 90° CORNER CONNECTION ELEVATION

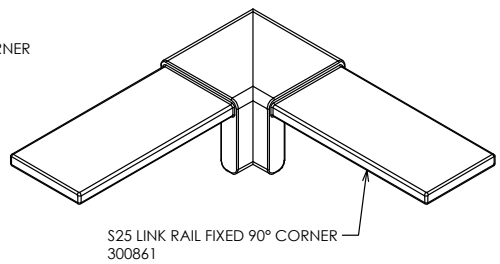


S25 LINK RAIL 90° CORNER
300861



SECTION B–B





IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

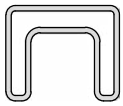
METROVIEW MINI POST SP160B RAIL & BRACKETS

S25 Link Rail

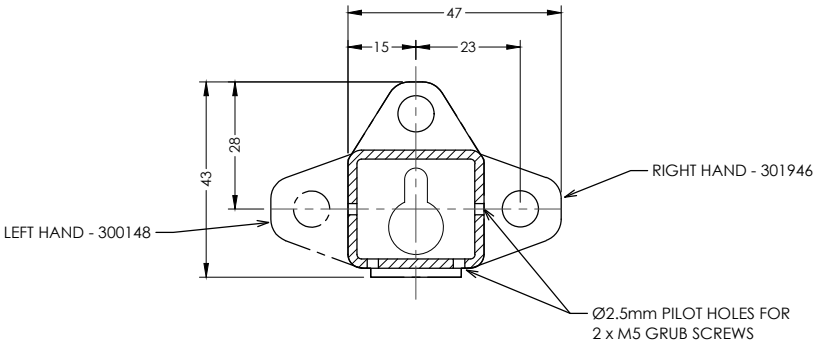
S25-04
S25 RAIL WALL BRACKET

All fixings to be stainless steel

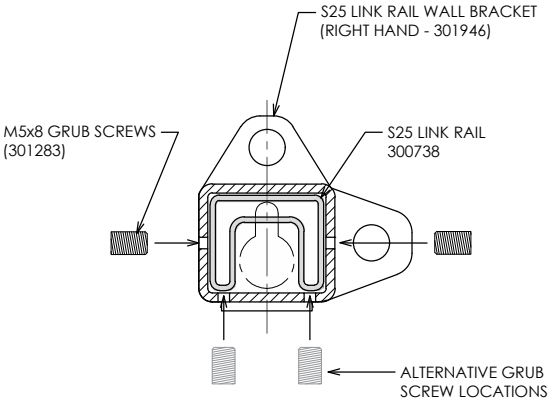
S25 LINK RAIL SECTION
300738



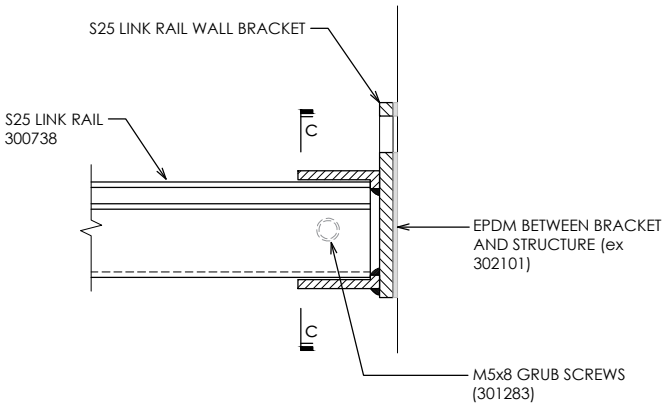
S25 LINK RAIL WALL BRACKET
RIGHT HAND - 301946 LEFT HAND - 300148



SECTION C-C



S25 LINK RAIL – END BRACKET SECTION

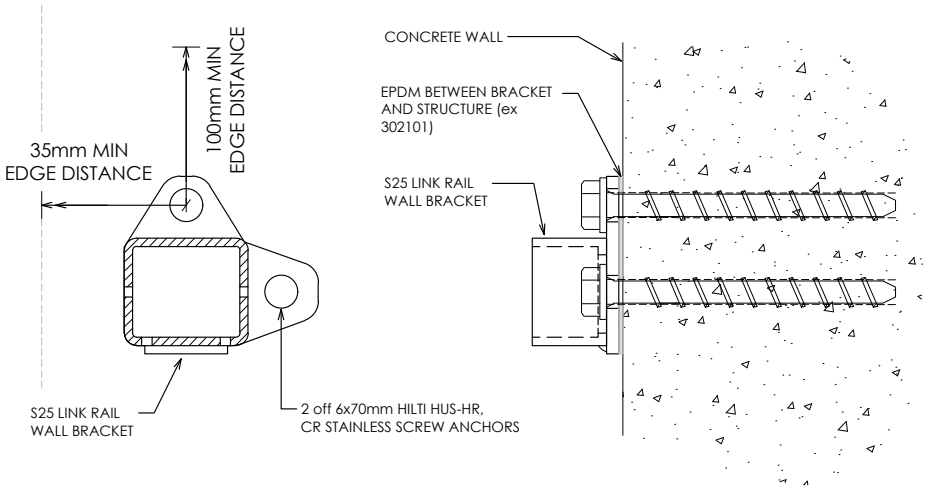


S25-05
S25 RAIL – END BRACKET CONCRETE WALL ATTACHMENT

All fixings to be stainless steel

NOTES:

1. Concrete wall is to be designed by project structural engineer for loads Imposed by balustrade. ULS Point load, n* = 0.9kN - Inwards, outwards or down.
2. Concrete wall to be minimum 140mm thick.
3. Concrete wall must be reinforced & is to be designed & detailed in accordance with NZS3101.
4. Minimum concrete strength = 20MPa.



IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

METROVIEW MINI POST SP160B RAIL & BRACKETS

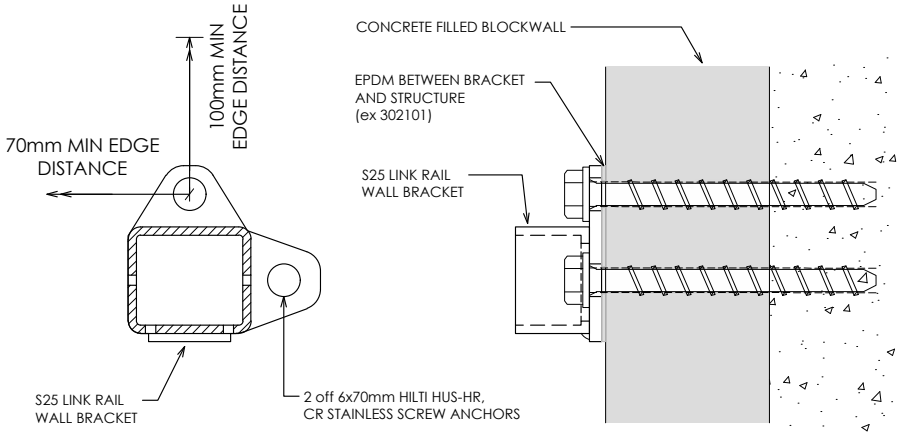
S25 Link Rail

S25-06
S25 RAIL – END BRACKET BLOCKWALL ATTACHMENT

All fixings to be stainless steel

NOTES:

1. Blockwall is to be designed by Project structural engineer for loads imposed by Balustrade. ULS point load, n* = 0.9kN - inwards, outwards or Down.
2. Minimum blockwall thickness = 140mm.
3. Blockwall must be corefilled / Reinforced & is to be designed & detailed in Accordance with NZS4230 or NZS4229.
4. Minimum corefill concrete Strength = 17.5MPa.

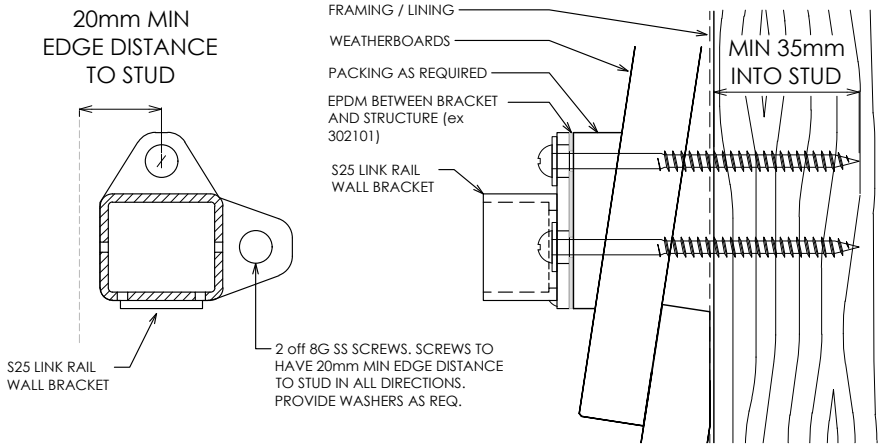


S25-07
S25 RAIL – END BRACKET WEATHERBOARD ATTACHMENT

All fixings to be stainless steel

NOTES:

1. Timber stud wall is to be designed by project Structural engineer for loads imposed by balustrade. ULS Point load, n* = 0.9kN - Inwards, outwards or down.
2. Minimum stud size = 90x45.
3. Minimum timber grade = SG8.
4. Timber stud wall to be Designed & detailed in accordance with NZS3603 or NZS3604.

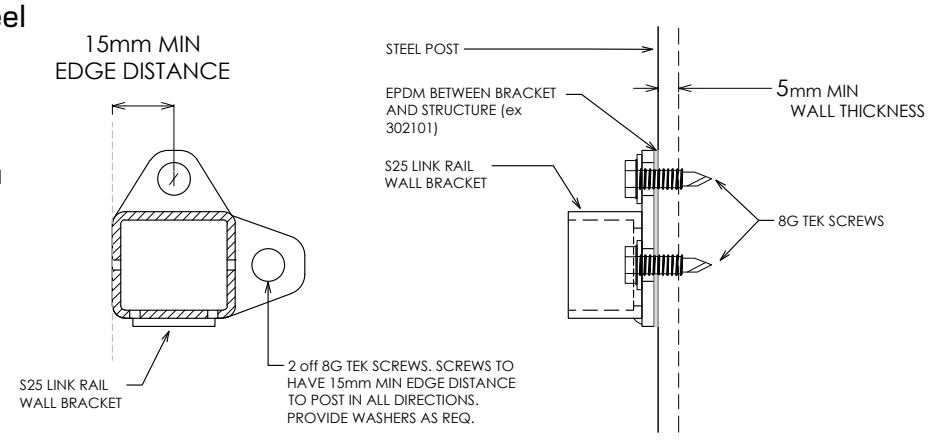


S25-08
S25 RAIL – END BRACKET STEEL POST ATTACHMENT

All fixings to be stainless steel

NOTES:

1. Steel post is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, n* = 0.9kN - inwards, outwards or down.
2. Building designer to ensure durability requirements of connection are met.
3. Minimum steel post wall thickness = 5mm.
4. Minimum steel grade = 300MPa.

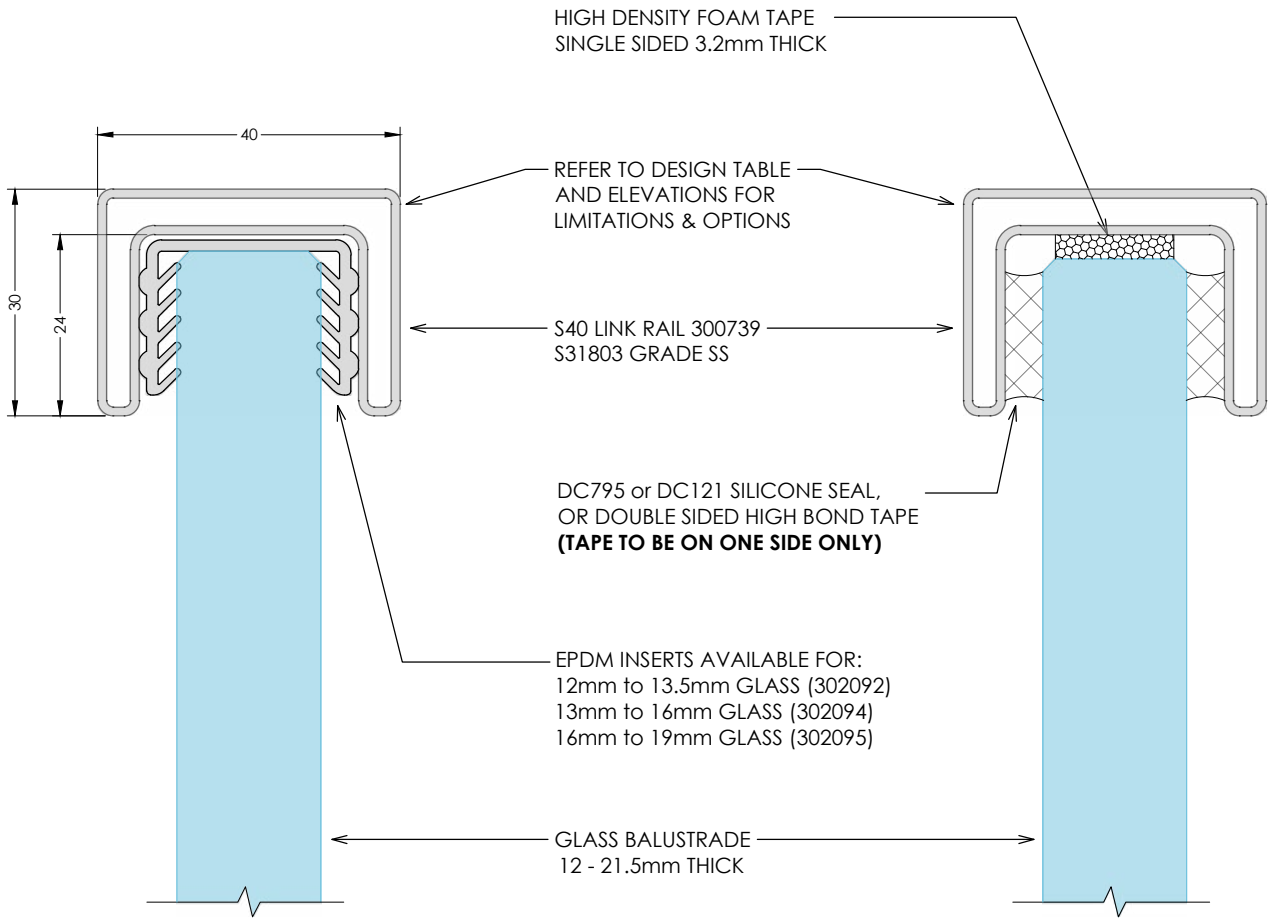


IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

METROVIEW MINI POST SP160B RAIL & BRACKETS

S40 Link Rail

S40-01
S40 RAIL – TYPICAL INSTALLATIONS



NOTES:

1. Interlinking rail details are only to be used on metro performance glass cantilevered glass balustrades.
2. Prepare for and apply DC795 & DC121 structural silicone in accordance with dow corning preparation and installation instructions.
3. Interlinking rail splice & corner connections are shown on drawings S40-02 & S40-03
4. Interlinking rail end connection brackets & attachment details are shown on drawings S40-04 to S40-08.
5. All screws to be stainless steel with a minimum ultimate shear strength of 3.5kN (per screw).
6. Link rail section and connection pieces to be S31803 grade stainless steel, in accordance with NZS 4673:2001.
7. Refer to warranty & maintenance pages for periodic inspection, cleaning & maintenance requirements.

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

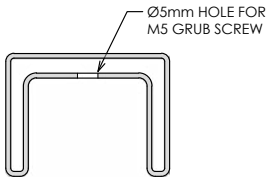
METROVIEW MINI POST SP160B RAIL & BRACKETS

S40 Link Rail

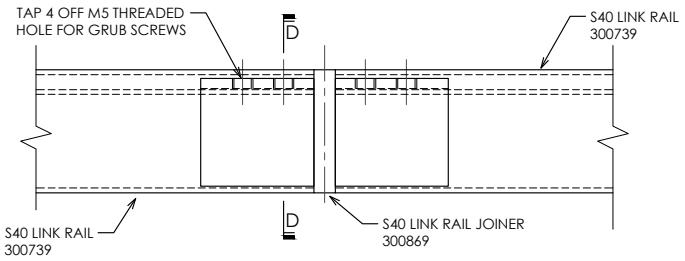
S40-02
S40 RAIL – SPLICE CONNECTION DETAIL

All fixings to be stainless steel

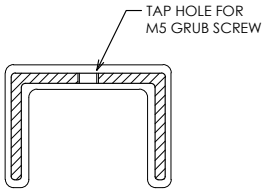
S40 LINK RAIL SECTION
300739



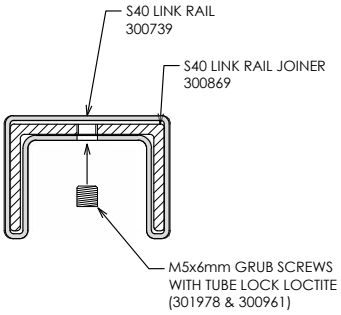
S40 LINK RAIL – SPLICE CONNECTION ELEVATION

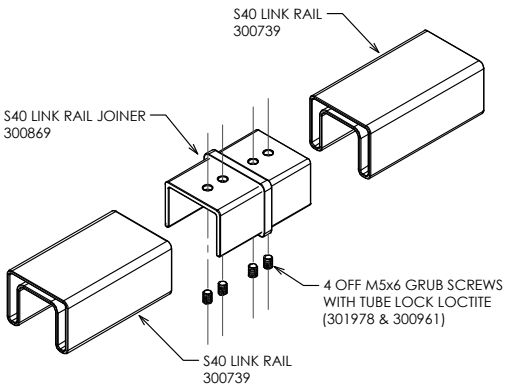


S40 LINK RAIL INLINE JOINER
300869



SECTION D-D

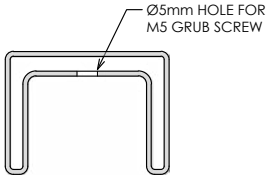




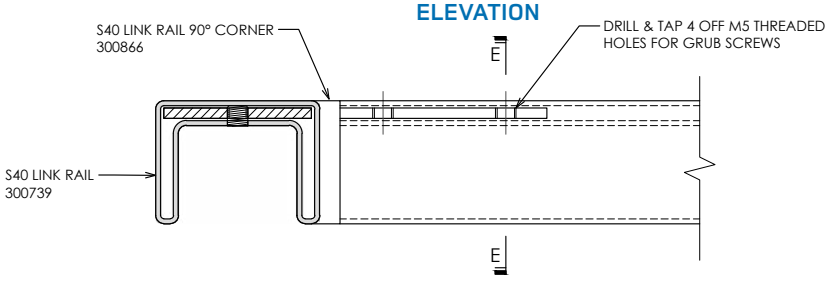
S40-03
S40 RAIL – 90° CORNER CONNECTION DETAIL

All fixings to be stainless steel

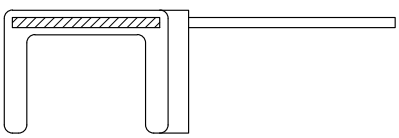
S40 LINK RAIL SECTION
300739



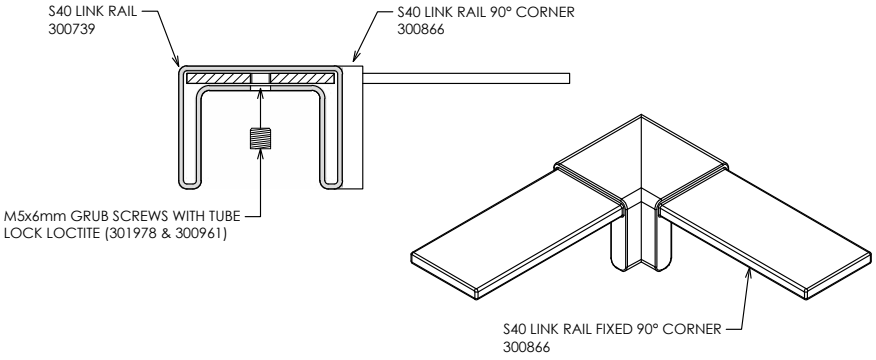
S40 LINK RAIL – 90° CORNER CONNECTION ELEVATION



S40 LINK RAIL 90° CORNER
300866



SECTION E-E



IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

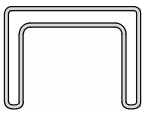
METROVIEW MINI POST SP160B RAIL & BRACKETS

S40 Link Rail

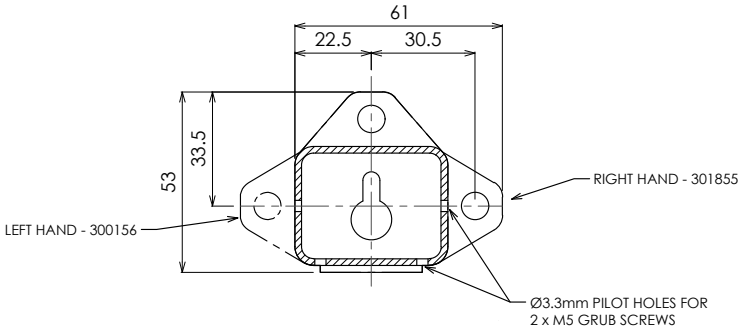
S40-04
S40 RAIL WALL BRACKET

All fixings to be stainless steel

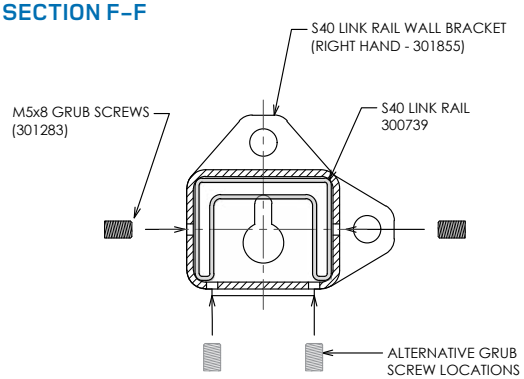
S40 LINK RAIL SECTION
300739



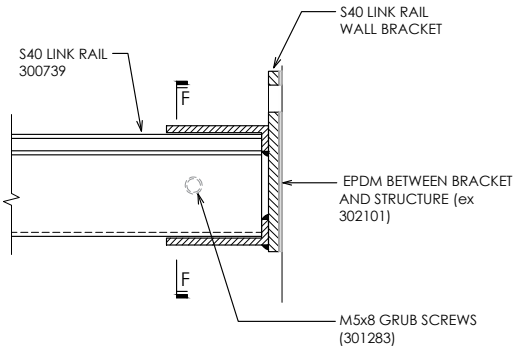
S40 LINK RAIL WALL BRACKET
RIGHT HAND - 301855
LEFT HAND - 300156



SECTION F-F



S40 LINK RAIL – END BRACKET SECTION

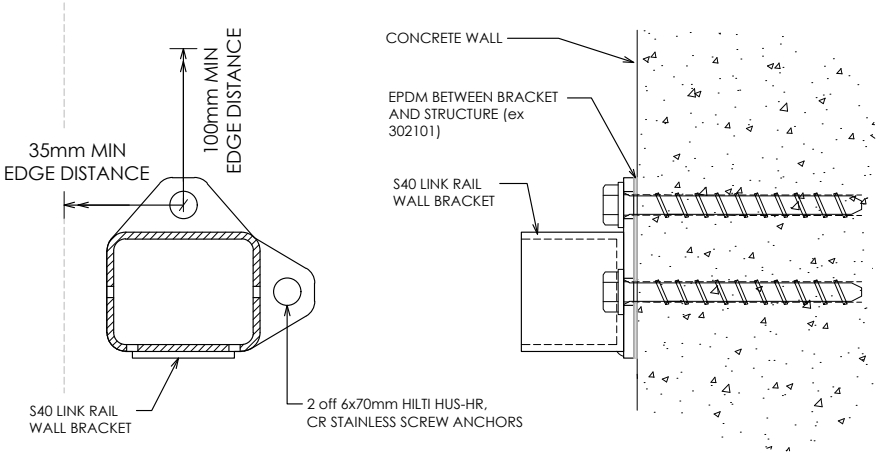


S40-05
S40 RAIL – END BRACKET CONCRETE WALL ATTACHMENT

All fixings to be stainless steel

NOTES:

1. Concrete wall is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, n* = 0.9kN - inwards, outwards or down.
2. Concrete wall to be minimum 140mm thick.
3. Concrete wall must be reinforced & is to be designed & detailed in accordance with NZS3101.
4. Minimum concrete strength = 20MPa.



IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

METROVIEW MINI POST SP160B RAIL & BRACKETS

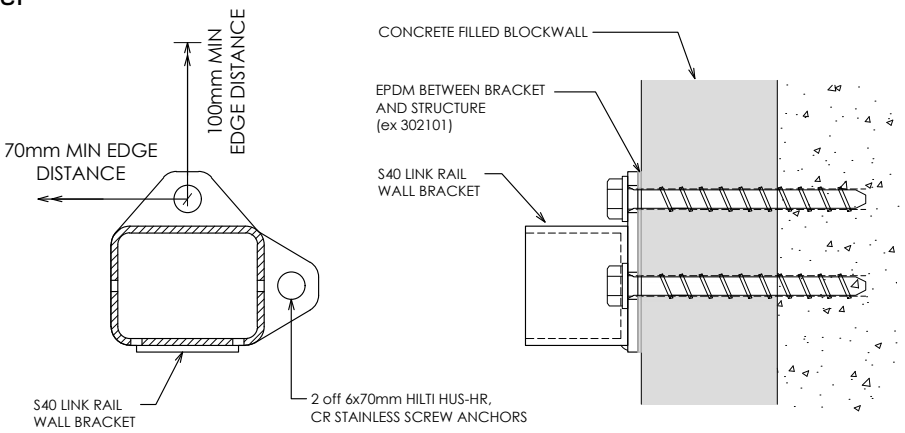
S40 Link Rail

S40-06
S40 RAIL – END BRACKET BLOCKWALL ATTACHMENT

All fixings to be stainless steel

NOTES:

1. Blockwall is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, n* = 0.9kN - inwards, outwards or down.
2. Minimum blockwall thickness = 140mm.
3. Blockwall must be corefilled / reinforced & is to be designed & detailed in accordance with NZS4230 or NZS4229.
4. Minimum corefill concrete strength = 17.5MPa.

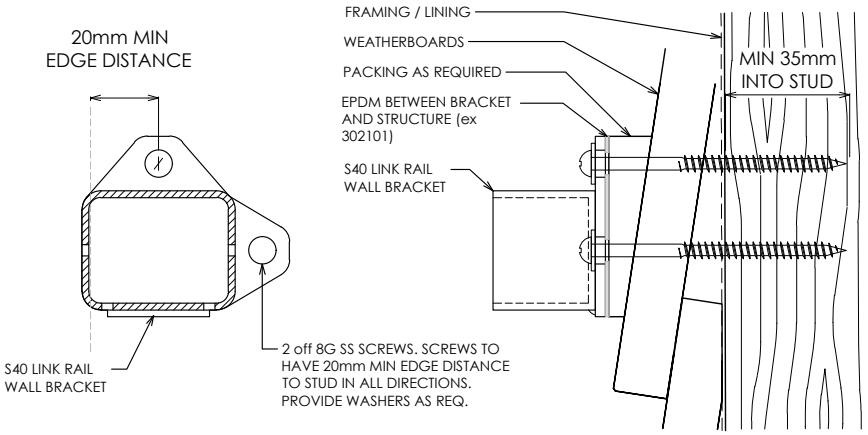


S40-07
S40 RAIL – END BRACKET WEATHERBOARD ATTACHMENT

All fixings to be stainless steel

NOTES:

1. Timber stud wall is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, n* = 0.9kN - inwards, outwards or down.
2. Minimum stud size = 90x45.
3. Minimum timber grade = SG8.
4. Timber stud wall to be designed & detailed in accordance with NZS3603 or NZS3604.

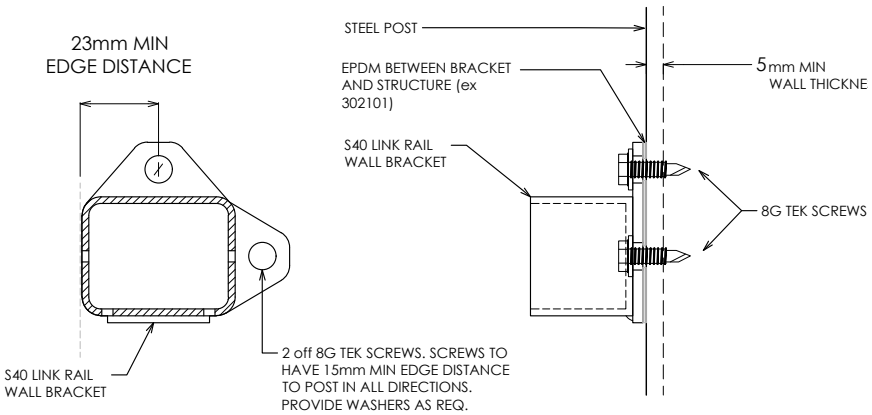


S40-08
S40 RAIL – END BRACKET STEEL POST ATTACHMENT

All fixings to be stainless steel

NOTES:

1. Steel post is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, n* = 0.9kN - inwards, outwards or down.
2. Building designer to ensure durability requirements of connection are met.
3. Minimum steel post wall thickness = 5mm.
4. Minimum steel grade = 300MPa.

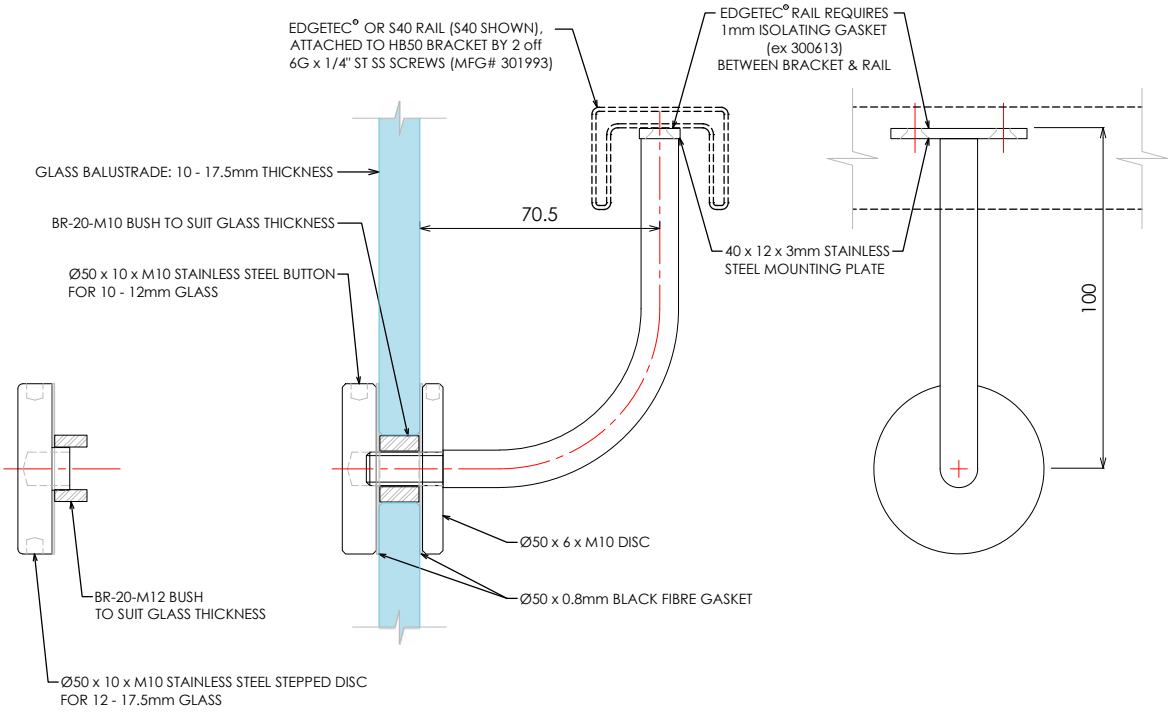


METROVIEW MINI POST SP160B RAIL & BRACKETS

HB50 Rail Brackets

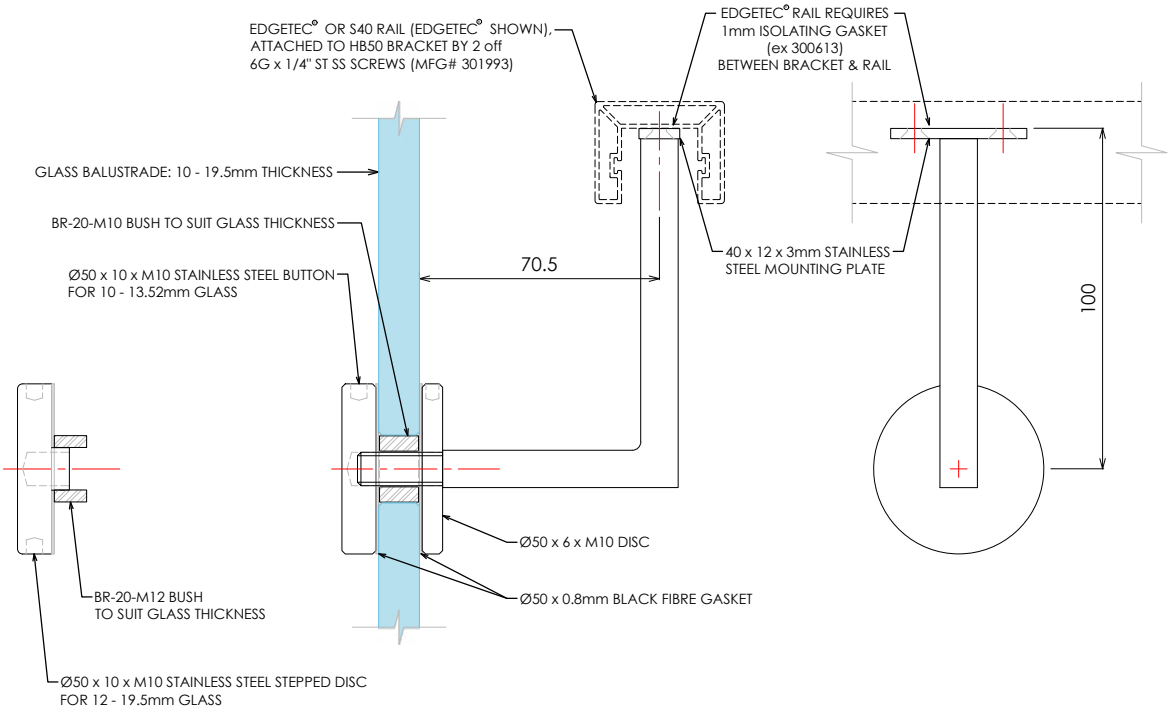
HB50-R-90 HANDRAIL BRACKET

All fixings to be stainless steel



HB50-S-90 HANDRAIL BRACKET

All fixings to be stainless steel



IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1